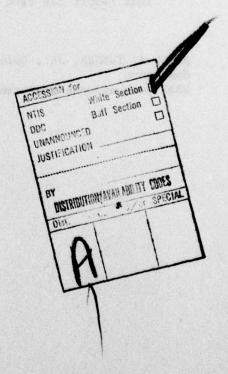


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PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of airmen in Air Force Specialties for which training is provided at Sheppard AFB.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey report was prepared by Capt Charles D. Gorman. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center

WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT SUMMARY FOR AFSCs TRAINED AT SHEPPARD AFB

INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory (EPI) to airmen assigned to Air Force Specialties for which training is provided at Sheppard AFB. The data for this report were collected during the period January 1976 through September 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by airmen in specialties trained at Sheppard AFB. This report is intended as a summary of EPI data. More complete information on any given AFSC can be obtained by examining the Electronic Principles Occupational Survey Report for that AFSC. Such reports are available upon request from the ccupational Measurement Center, Lackland AFB, Texas 78236.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EP1. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas and the item numbers contained therein.

A more detailed history of the development and validation of the Electronic Principles Inventory is contained in OM Technical Note 77-02, The Development and Application of the Electronic Principles Job Inventory, October 1977. Copies of this Technical Note are available upon request to the Branch Chief, OMY, USAF Occupational Measurement Center, Lackland AFB, Texas 78236.

ADMINISTRATION

The Electronic Principles Inventory was administered either by mail or in person to airmen in 10 specialties for which training is provided at Sheppard AFB. Those specialties are listed in Table 2. More detailed information concerning the survey sample for any given specialty can be obtained from the previously mentioned report for that specialty.

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TABLE 1

EPI SUBJECT AREAS

SUBJECT AREA TITLE	BEGINNING ITEM NUMBER
903 STORY	ST THE MELIE
MATHEMATICS	A1
DIRECT CURRENT AND VOLTAGE	A15
RESISTANCE	A24
MULTIMETER USES	B 52
ALTERNATING CURRENT	B61
INDUCTORS AND INDUCTIVE REACTANCE	B 57
CAPACITORS AND CAPACITIVE REACTANCE	C92
TRANSFORMERS	C128
MAGNETISM	C171
RCL CIRCUITS	D185
SERIES AND PARALLEL	D229
RESONANCE (TIME CONSTANTS)	
FILTERS	D239
COUPLING	E261
SOLDERING	E273
RELAYS	E295
MICROPHONES	F314
SPEAKERS	F327
OSCILLOSCOPES	F342
SEMICONDUCTOR DIODES	G354
TRANSISTORS	G404
TRANSISTOR AMPLIFIERS	G428
SOLID-STATE SPECIAL PURPOSE	
DEVICES	H477
POWER SUPPLIES	H483
OSCILLATORS	H512
MULTIVIBRATORS	1539
LIMITERS AND CLAMPERS	1555
ELECTRON TUBES	1565
ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609
SPECIAL PURPOSE ELECTRON TUBES	J616
HETERODYNING, MODULATION, AND DEMODULATION	J632
AM SYSTEMS	K638
FM SYSTEMS	K666

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

	BEGINNING
	ITEM
SUBJECT AREA TITLE	NUMBER
NUMBERING SYSTEMS	K 685
LOGIC FUNCTIONS	L695
BOOOLEAN EQUATIONS	L708
COUNTERS	L733
TIMING CIRCUITS	M757
USE OF SIGNAL GENERATORS	M769
MOTORS AND GENERATORS	M779
METER MOVEMENTS	N808
SATURABLE REACTORS AND	N818
MAGNETIC AMPLIFIERS	
WAVESHAPING CIRCUITS	N834
SINGLE SIDEBAND SYSTEMS	0845
PULSE MODULATION SYSTEMS	0875
ANTENNAS	0914
TRANSMISSION LINES	P953
WAVEGUIDES AND CAVITY	P984
RESONATORS	
MICROWAVE AMPLIFIERS AND	P1034
OSCILLATORS	
REGISTERS	Q1110
STORAGE DEVICES	Q1117
DIGITAL TO ANALOG CONVERTERS	Q1126
PHANTASTRONS	Q1140
SCHMITT TRIGGERS	R1141
CABLE FABRICATION	R1144
INPUT/OUTPUT DEVICES	\$1146
PHOTO SENSITIVE DEVICES	S1149
SYNCHRONOUS VIBRATIONS	\$1150
(CHOPPER CIRCUITS)	LETTE -
INFRARED	T1159
LASERS	T1186
DISPLAY TUBES	T1220
PROGRAMMING	U1234
DB AND POWER RATIOS	U1255

TABLE 2

SPECIALTIES FOR WHICH DATA ARE PROVIDED IN THIS REPORT

306X1 306X2 316X1F 316X1P 362X1 362X2 362X3 362X4 403X0 442X0

PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. Group Summary (GPSUM) computer printouts are provided in the Appendix portion of this report. They summarize responses to the inventory by AFSC groups. The first page of the Group Summary lists the groups for which data are presented. The remainder of the Group Summary displays the percentage of each group who answered "yes" to each question asked in the EPI.

APPENDIX

TABULATION OF PERCENT MEMBERS RESPONDING "YES" TO QUESTIONS BY DAFSC GROUPS REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED GROUP IDENTITY = SPC226 ALL AIRMEN DAFSC 30651 GROUP IDENTITY = SPC701 ALL AIRMEN DAFSC 31651/16/11/19/19 GROUP IDENTITY = SPC702 ALL AIRMEN DAFSC 31651/16/11/19/19 GROUP IDENTITY = SPC703 ALL AIRMEN DAFSC 31651/16/11/19/19 GROUP IDENTITY = SPC703 ALL AIRMEN DAFSC 36251 GROUP IDENTITY = SPC704 ALL AIRMEN DAFSC 36253 GROUP IDENTITY = SPC705 ALL AIRMEN DAFSC 36253 GROUP IDENTITY = SPC706 ALL AIRMEN DAFSC 36253 GROUP IDENTITY = SPC706 ALL AIRMEN DAFSC 36253 GROUP IDENTITY = SPC707 ALL AIRMEN DAFSC 36253 GROUP IDENTITY = SPC708 ALL AIRMEN DAFSC 40350 GROUP IDENTITY = SPC708 ALL AIRMEN DAFSC 40350	
CONTAINING 116 MEMBERS. CONTAINING 241 MEMBERS. CONTAINING 49 MEMBERS. CONTAINING 16 MEMBERS. CONTAINING 33 MEMBERS. CONTAINING 68 MEMBERS. CONTAINING 68 MEMBERS. CONTAINING 61 MEMBERS. CONTAINING 61 MEMBERS. CONTAINING 104 MEMBERS. CONTAINING 33 MEMBERS. CONTAINING 33 MEMBERS. CONTAINING 33 MEMBERS. CONTAINING 33 MEMBERS.	

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35 99			5	58	50	55	68	86	33 A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC	33
1	8, 3	2	88	70	63	67	68	85	32 A3-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK WITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT, OR	32
	80 4	87	62	76	75	76	6.8	8.	TENTINE CHARGE OF TREEF TO RESTRICT SYMBOLS SUCH AS FIXED DESCRIPTION CAMBOLS AND AS FIXED	3
6 54	15	31	7	21	25	22	12	30	A3-07 DO YOU USE OR	30
35 99	84 3	90	73	70	50	63	79	90	29 A3-06 DO YOU REMOVE OF REPLACE RESISTORS.	29
			25	20	: :	20	7 7 7	0 0	A3-04 DO YOU AUJUST RESISTORS.	77
		1	29	61	38	53	61	117	43-03 DO YOU	26
1 97	85 3		68	76	3.8	63	75	90	DO YOU INSPECT PESISTORS.	25
5 85	82 .	87	68	76	75	76	71	86	29 A3-01 DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.	24
8 50		19	10		25	77	18	13	DO YOU USE	22
10 49	13 1	31	15	6	25	12	17	13	A2-07 DO YOU USE THE TERM	21
	93 7	91	88	97	100	98	82	91	AZ-06 DO YOU USE THE TERM	20
			•	•	19	10	6	u c	AZ-05 DO YOU USE THE TERM	19
60	100		5 2			5 8	1 0	. ;	100	; ;
33 69		::	28	915	38	22	87	28	AZ-DZ DO YOU USE THE TERM	16
			88	97	100	98	90	95	A2-DI DO YOU USE THE TERM	15
0 46	7		0	22	19	10	5	9	A1-14 DO YOU SOLVE OR USE PROPORTIONS.	14
1 19	w	14	5	•		•	ω.	2 .	A1-13 DO YOU	13
2 23		,	,		;	5		•	SINE, COSINE, OR TANGENT.	-
2 29	7	-		12	31	18			A1-11 DO YOU	11
33	2	6	5		120	10	w	 .	10 A1-10 DO YOU PERFORM CALCULATIONS ON VECTOR QUANTITIES.	10
23	. w		. U	72	•	10			00 400	
	•	.1						•	CALCULATION	
0 23	w (- 0			==	•	w 4	wr	7 A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF	~ 0
22	^ 6	. :	, i	. 2	::			, ,	AT-05 DO YOU CONVERT NUMBERS TO LOGARITHMS	
3 39	5	15	5		19	12		7	NOA 00 40-1V	
9 70	25	17	=	12		55	12	22	DO YOU REARRANGE AND SOLVE FORMULAS	w
									TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN	
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2	30	9	2	100	.,		8	*	METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO	
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C SPC	SPC SPC	SPC S	SPC 703	SPC 702	SPC	SPC	SPC 251	SPC 226	DY-TSK	
									PERCENT MEMBERS PERFORMING	PERC
AIR FORCE SYSTEMS COMMAND	FORCE	AIR		16	PAGE	GPS700 PAGE	61		PCT MSRS RESPONDING 'YES' BY DAFSC GROUPS	7 3

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:	•	92	79		•	91	•	89		25	27	27	35	36		26	30	31	38	,		25	38	:	3	:	76		36	13	12		SPC		
2	7	:	91	7	•	96	7	96		32	:	:	:	:		32	:	47	:	:		35	99			•7	91	L/R	43	29	78		SPC		
:	3	93	70	3	5	93	5	92		34	36	38	36	•3		36	=	:3	39	:		36	:		70		93		*6	26	70		SPC		
	2	73	60			7	•	66		=	20	22	22	23		19	23	24	25		36	23	31	;	3	33	56		39	16	30		SPC		
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C 120 C	C 119 0	C 116 0	C 117	6 116	C 115	6 114	6 113	C 112 0	C 1111 0	0 110	c 109	107	5 106		C 103	102	C 101 0		0 99 0	98	0 76	95	6 94		C 92 (PERCE	PCT MBI
C1-29 DO YOU CALCULATE CAPACITIVE REACTANCE	C1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO	C1-27 DO TOU USE OR REFER TO THE SENERAL RULE THAT CURRENT		CI-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	C1-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	5	DIELECTRIC CONSTANT C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO THE DIFFECTRIC THICKNESS	C1-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE	C1-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR CAPACITORS USING FORMULAS	CI-15 DO YOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH CIRCUITS	C1-16 DO YOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC AND AC	DO YOU WORK WITH CAPACITORS	C1-14 DO YOU USE OR REFER TO CAPACITOR COLOR CODES	OPS	C1-13 DO YOU USE OR REFER TO MORKING VOLTAGE RATING OF	DO YOU USE OR REFER TO	C1-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS.	A DIELECTRIC.	CI-DO DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE.	1-07 DO YOU	CI-OS DO YOU DISCHARGE CAPACITORS.	DO YOU	C1-03 DO YOU CLEAN CAPACITORS.	_	C1-D1 DO YOU WORK WITH CAPACITORS OR CIRCUITS CONTAINING	DY-TSK	PERCENT MEMBERS PERFORMING	CT MBRS RESPONDING 'YES' BY DAFSC GROUPS
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C2-24	0E1	STE	C2-2	7-73	V3M	C2-2	W3#	TRA	C2-16	C2-17	C2-1	C2-1	COL	C2-1	TR.	CUR	C2-1	MAEN	62-09	AND	C2-0	1HE	90-23	C2-05	C2-04	62-03	C2-02	C2-01	C1-36	C1-35	C1-34	C1-33	C1-32	C1-31	C1-30		
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ORMER			TRAN	V 10		FOR SHORTED WINDINGS	010	200	DON'T REMEMBER WHAT TYPE OF	FREQUENCY TRANSFORMERS	TRANSFORMERS	POWER TRANSFORMERS	AUTOTRANSFORMERS	IMPEDANCE INTERACTIONS FOR		070	S FOR		IV		MEEN	TRANSFORMER PARTS, SOCO	REMOVE OR REPLACE COMPLETE	MERS				WORK WITH TRANSFORMERS IN YOUR PRESENT JOB	DON'T REMEMBER WHICH TYPE OF	CERAMIC (FIXED) CAPACITORS	MICA (FIXED) CAPACITORS	PAPER (FIXED) CAPACITORS	ELECTROLYTIC (FIXED) CAPACITORS	COMPRESSION (TRIMMER) CAPACITORS			
SCH	TRANSFORME STEP-UP OR	A STEP-UP	TRANSFORMER	K 150		RIED	0754 81401465		HAT	TRAN	RS	RS		10110		25	TRA	-	UDNI		MUI	× 34	TRA	4.00				VOUR	HICH	CAPA	ACLI	PACI	XED	MMED	PIAR		
TO BASIC TRANSFORMER SCHEMATIC	TRANSFORMER STEP-UP OR					HIN	2	200	TYPE	SFOR				NS F	•	N N	NSFO	•	CTAN		=	AR I	N SF O		1			399	TYP	CITO	ORS	TORS	CAP	CA	5		
	u u	OR	MINDINGS	TWES		SINES	0		9	TERS			1	æ		OR X	MERS		3.		NDUC	, ,	TRANSFORMERS				1	FNT	of	25			CITO	ACI			
STHBOLS	169-			9		BY					8-00 S					CURRENT OR VOLTAGE RATIOS	YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING		COUD THE		HOLL	Cu 42						108					R S	ORS	ROTOR-STATOR (VARIABLE) CAPACITORS		
			10													Ĩ.	6																				
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56	25		19	:		56	1		13	19	25	50		•		-	19	;	: 5		13	•		56	38	25	:	60	19	25	19	25	31	13	5	SPC SPC	
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C 176 C3-06	176 C3-06 C 177 C3-07	0			C 173 C3-	0		;	C 169 C2-42			C 165 CZ-1	C 164 C2-	C 163 C2-	1	101		C 160 CZ-1	C 159 C2-1		C 158 C2-1	C 157 C2-	C 156 C2-2	C 155 C2-2		C 154 CZ-2	C 153 C2-2	C 152 C2-25		TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING	
	07 00		WATERIALS	MATERIALS	C3-03 DO YOU USE	C3-01 00	PARTS SUCH AS WINDINGS	TRANSFORMERS	C2-42 DO		C2-39 DO	C2-38 DO YOU INSPEC	C2-37 DIDES YOUR JOB	C2-36 GO YOU CALCULATE	USING TURNS PATIOS	FOR TRANSFORMERS	TURNS RATIO	C2-33 DO YOU REFER TO OR USE	C2-32 DO YOU DETERMINE	SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING SCHEMATIC SYMBOLS	C2-31 00	C2-30 00	TRANSFORMERS	TRANSFORMERS	TRANSFORMERS	CZ-27 DO YOU	C2-26 DO	2-25 DO		GROUP SUMMARY	
DO YOU USE OR REFER TO MEBER'S THEORY OF MAGNETISM	100			5.1	200	3Sn nov	UCH /	RMER	100			VOV.	ES Y	VOU	URNS	NSFOR	0110	TOU	100	IC SI		100		RMERS	RMER	100 X		YOU		RS PE	
3Sn	350					350	IN SI			POJU	CLEA	INSPECT	CR.	RATIOS	RATIOS	MERS	95 >	REFE	DETE	B PR	YOU DETERMINE	YOU REFER	YOU REFER	NERS REFER		REFE	YOU REFER	REFER		RFOR	
OR R	2 2	2			2 2	O R	MION		AE O	1 15	000	-		OS	SOLAT	2	TRA	70	RHIN	IMAR	DETERMINE PH	RTO	R 10	R 10		R 10	R 10			HING	
FER	REFER	REFER TO PERMEABILITY OF MAGNETIC	REFER		REFER	REFER	58	970	REMOVE OR REPLACE COMPLETE THREE PHAS	HREE	YOU CLEAN OR LUBRICATE	THREE PHASE	INVOLVE ANY TASKS DEALING WITH			23.53	OF A TRANSFORMER IS	OR USI	OR	TOA A		TO COMBINATIONS OF	TO IRON CORE	TO AIR CORE SCHEMATIC SYMBOLS FOR		YOU REFER TO CENTER TAP SCHEMATIC SYMBOLS FOR	TO MULTIPLE TAP SCHEMATIC SYMBOLS FOR	TO MULTIPLE	DY-TSK		
10 W	10 0	10 P	0		3		2383		LACE	PHAS	RICAT	PHA	E AN	RENT	TAGE		MER	135	REFE	TAGE	SE R	TNAT	COR	CORE		ER T	IPLE	IPLE	×		
8383	MAGNETIC	ERME	BELUCIANCE OF		RETENTIVITY OF MA	PERMANENT	1		CONT	ETR	-		Y 74	CURRENT RATIOS FOR	VOLTAGE RATIOS FOR		IS E	19 3HI	OR REFER TO THE TYPE OF	SOF	PHASE RELATIONSHIPS BETWEEN	SNOI	E SCI	SCH		AP S	TAP				
.S 1H		VBILI	ANCE			MENT	,		PLE TE	TRANSFORMERS	THREE PHASE	TRANSFORMERS	SKS D	IOS F	105 7		EQUAL TO	GENERAL RULE	341	TRAN	HSNO	OF T	SCHEMATIC	LAVA		CHEMA	SCHE	SECONDARY-WINDINGS			
EORY	LINES OF	14 0	0		Y 05	MAGNETS	36		THR	RMER	HASE	ORME	EALI			OR 01 17 00 80 17 17 17 17 17 17 17 17 17 17 17 17 17	101	2	TYPE	SFOR	IPS	A 3H		C SY		110	TTAN	TW-Y			
05 1	OF F	* **	MAGNETIC		HAGN	SIS	777		EE PH	5		200	NG WI	TR ANSFORMERS	TRANSFORMERS					MERS	86746	BOVE	SYMBOLS FOR	MBOLS		SYMBO	C SYP	NDING			
AGNE	FORCE	SNE 11	311		MAGNETIC		7		PHASE		TRANSFORMERS			ORME	ORME		LTAG	THAT	CORE	NI SA	2	SCHE	S FO	FOR		LS F	BOLS				
I ISH	2	ſ					•	•			HERS		THREE	RS	X.		VOLTAGE RATTO	3#1	IN	6		THE ABOVE SCHEMATIC	D			S	FOR	SCHEMATIC			
•	28	12			= %	: 4	•		7.		•	7	10	•	4	. 3	2	15	13		22	52	38	29		3	66	68	SPC 226		
	55	12	,		90	: 5	•		w n	. ~	2		s	•		. :	3	=	=		15	29	20	15		:	39	30	SPC 251		
•	33	12	10		5	20			5 5		6	16	2.		a	. :	3				27	27	24	20		33	35	29	3PC		
25	25	25	19		19:	25		•	19 2	13	13	13	3.0	19	19	:		13	25		31	38	:	7		So	50	2	101 24S		
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•	37	2	21		2	: 5			7		7	•	-	28	32			35	26		32	:	*7	30		63	62	53	SPC 704		
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CT MBRS RESPONDING YES' BY DAFSC GROUPS		GP	GPS 700 PAGE	PAGE	97		-	R FOR	CE SY	STEMS	AIR FORCE SYSTEMS COMMAND
TASK GROUP SUMMARY Percent members performing							+			26	\$1°
DY-ISK	SPC 226	SPC 251	SPC 700	202	SPC	SPC	SPC	205	SPC	250	SPC 700
179 C3-09 DO YOU USE OR REFER TO DOMAIN THEORY OF MAGNETISM	u	5	•	25	-	•	•	5		5	-
C3-10 DO YOU USE OR REFER TO	16	13	=	25	15	25	29	13	16		-
181 C3-11 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR	==		31	38	27	3 5	59	33 7	39 6	27	5 -
MAGNETIC POLES. LIKE POLES REPEL AND UNLIKE POLES			1				!		1	1	
DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES	=	17	18	38	•	15	21	15	19	38	•
USE THE LEFT HAND THUMB RULE TO	•	15	=	31	•	13	19	15	13	38	•
POLE OF A CURRENT CARRYING COIL 185 D1-01 DO YOU WORK WITH PC, LR, RCL CIRCUITS IN YOUR	5	=	16	19	15	•		25	•	2	-
PRESENT JOB	,	•		13		-	13		-	7	
CIRCUITS											
187 D1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN	2	2	•	13		_	5	w		25	•
186 DI-DO DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL	2	•	12	19	•	2	•	w	-	25	0
189 D1-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL	2	w		19	w	2	•	w	-	27	•
190 DI-00 YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL	2	•		19	w	-	5	w	-	25	0
191 D1-D7 DO YOU USE OR REFER TO WATTS WHEN WORKING WITH RCL	13	•	;	19	12	~	26	,	2	56	•
192 DI-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING	00	•	6	19	•	-	21	~	0	•2	0
-	00	5	•	13	w	2	=	N		5	•
	30	5	5	=	•	-	16	7		38	0
195 DI-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN		5	6	19	•	2	15	2		37	0
WORKING WITH RCL CIRCUITS	æ	•	•	3	0	N	6	w	-	38	0
WITH RCL CIRCUITS	0		•				2		,	2	•
WORKING WITH RCL CIRCUITS		١.							2.00		
-	03	w	•	13	•	~	16	10		56	0
199 D1-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH	,	£	00	13	•	~	15			50	0
DO YOU USE OR	::	5	10	13	•	~	22	10	2	63	0
201 D1-17 DO YOU USE OR REFER TO HALF POWER POINTS WHEN	3	w	6	19	0	~		0	0	33	0
WORKING WITH RCL CIRCUITS											
WITH RCL CIRCUITS				:			;			•	
203 D1-19 DO YOU USE OR REFER TO CIRCUIT O WHEN WORKING WITH	•	~		13	0		•			37	0

			-	The second second				A COLUMN TO A COLU		No. of Contrast of	
PERCENT MEMBERS PERFORMING											
DY-13K	SPC 226	SPC 251	SPC 700	SPC SPC	SPC 702	SPC 703	SPC 704	SPC 705	SPC 706	SPC 707	SPC 708
8	20	1	10	13	•	-	25	•	-	6	0
205 D1-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS	-			13	0	-	•	2	-	23	0
206 D1-22 DO YOU DRAW YOUTAGE, CHRRENT, OR IMPEDANCE VECTOR	2		•	13	•	2	6	3	-	28	-
	u l	5		13		2	16	5	2	35	•
CIRCUITS											4
208 D1-24 DO YOU CALCULATE PHASE ANGLES BETHEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS	2	w	•	19	0	-	6	2	-	23	•
209 D1-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL	5		6	19	0	2	16	3	2	34	•
210 D1-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL	3	w		13	0	-	10	w	2	21	0
211 D1-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL			•	19	0	2	12	w	•	28	0
212 DI-26 DO YOU CALCULATE TRUE POWER (PT) FOR SERJES RCL	3		•	19	0	-	12	w	-	30	•
213 DI 200 YOU CALCULATE POWER FACTORS (PF) FOR SERIES RCL		•	•		0	2	•	5	-	25	0
214 D1-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL		•	•	19		2	19	u	2	36	•
215 01-31 00 YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL	2			13	0	-			-	•	•
CIRCUITS 216 D1-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL	y.		2	•		-	5	w	~	2.	a
DI-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR	•		•	19	•	2	22	•		*	•
CIRCUITS USING OHM'S LAW	•	=	20	25	=		8	2		7	•
C1-35 DO YOU CHECK CAPACITORS USING	33	-	5	•	=	4	3	=		2	0
220 D1-36 DO YOU CHECK INDUCTORS USING SUBSTITUTION	36	6 2	20	25	7 18		31 57	20		5 2	00
DI-38 DO YOU USE OR REFER TO THE SEMERAL PUL	2			13	0	-			-	=	0
223 D1-39 DO YOU CALCULATE RESONANT FREQUENCIES FOR RCL	•			13	0	-	12		-	37	0
IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT	•	•	•	13	•	2	=	•	-	=	0
FREQUENCY FOR SERIES ACL CIRCUITS 225 D1-W1 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE	,	s	•	12	•	~	15	,	-	32	•
			-		-					1	
226 D1-92 DO YOU USE OR REFER TO THE SENERAL PULE THAT HALF	w	•	12	25	•	-	10		2	35	0
TO THE GENERAL RULE THAT				13		-		2		25	•
228 DI-++ DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE	5		-	25	•	-	13	,	-	×	•

CT MB PERCE 259 260 261 263 263 265 266 266	SPC 28 31 35 30 28 28 28 28 28 31 31 31 31 31 31 31 31 31 31 31 31 31		SPC SPC 700 701 16 25 20 25 16 19 19 19 19 16 25 16 25 25 26 27 25 26 27 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	PAGE SPC 701 19 25 6 6 701 19 25 25 25 25 25 25 25 25 25 25 25 25 25	12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	2 5 2 7 5 37 1-3 78 C	AF 28 25 25 26 28 29 29 25 25 25 25 25 26 28	SPC 705 5 5 5 5 11 11 11 11 11 11 11 11 11 11	SPC		SPC SPC SPC 7707 7088 COM 770 0 0 775 0 0 775 0 0 775 0 0 775 0 0 775 0 0 775 0 0 775 0 0 0 775 0 0 0 775 0 0 0 775 0 0 0 775 0 0 0 0
266 E1-06 DO YOU TROUBLESHOOT CIRCUITS WHICH PERFORM IMPEDANCE COUPLING 267 E1-07 DO YOU TROUBLESHOOT CIRCUITS	2 2	10	7 2	19	2 2		2.	= =			3 7
E1-08 DO YOU WORK E1-09 DO YOU WORK CIRCUITS	29	• 5	22	19	12	~	19	==		W W	**
E 270 E1-10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS	22	7		13	•	2	=	=		·	6
E 272 E1-11 DO YOU WORK WITH TRANSFORMER COUPLED CIRCUITS	20	• •	216	2 0	3 2		22			- •	15
273 E2-01 IN YOUR PRESENT JOB, DO YOU I		8	2.	2	2	22.	93	•		3.	2
n m	75	3 5	: :	7 2	: :	3 6	; =	7			2
E2-04 DO YOU	8 8 2	: 6 :	:::	: 5 2	: 3 :	:25	:::	2 2 2			:::
E 278 E2-06 DO YOU SIRLY INSULATION FROM MIRES	87	33	::	::	33	2 %	::	79		36	3:
E2-07 DO YOU	8 8 9	2 2	2 9	22	::	25	:	90		78	200
281 E2-09 DO YOU FILE OR SHAPE	78	2	::	:	85	92	= :	.;			8
EZ-10 DO YOU TIN SOLDERING IRON TIPS		82	92	:	2	92	93	*			E
E 28% E2-12 DO YOU CLEAN SOLDERING IRON TIPS	. 6	78	6 9	::	5 9	2 92	::	72		**	23
285 E2-13 DO YOU TIN OR PRE-TIN CONDUCTORS	83	72	86	2	85		85	80		58	
286 E2-14 DO YOU	90	2	92	:	:=	92					E
E 288 E2-15 DO YOU DESOLDER CONNECTIONS BY WICKING DESOLDERING	8.8	::	\$ 5	5 5	55	::	2:	74		36	3 3
TOOLS	7	3	8	2	2	2					
50 . 40 . 60 . 60 . 60 . 60 . 60 . 60 . 6	20	=:	20	•	21	7	25	33		15	37

TEL MENS RESPONDANG TEST BY DATE BROUPS	-	GPS	GPS 700 PAGE		707		AIR	PORCE	STATEMA	CORRAND
TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING										
0Y-15K	SPC S	SPC S	SPC SPC 700 701	SPC SPC 701 702	C SPC	S 204	C SPC	S 706	SPC 707	SPC 708
IN YOUR PRESENT	4.2	~	0	0	0	9 21	19 1	1 39	69	0
WIT.	•		,	,						,
326 F2-UZ UU YOU IMSPECT SPEARERS	31				00	1 -	20 0	25	2 2	0 0
F2-04 DO YOU	38									
F2-05	20	0	0			1				0
S OF SPEAKERS	•						•			•
222 F2-D7 DD VOII DEMONE OF DEPLACE COMPLETE COSCUEDA	, 5	. ~	.) C	•		21 6	23	
F2-DA DO YOU REMOVE UR REPLACE SPEAK	, m					•				
DO YOU PERFORM ANY TASKS ON SPEA		0	0	0	0	3	0 10		11	0
F2-10 DO YOU PERFORM ANY TASKS ON SPEAKER	•				0	2				
F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER	-	0	0		0	2	0	-		0
F2-12 DO YOU PERFORM ANY TASKS ON SPEAKER	2					3				•
P F2-13 DO YOU PERFORM ANY TASKS ON SPEAKER	2				0	2				
340 F2-14 DO YOU PERFORM ANY TASKS ON SPEAKER ELECTROMAGNETS	3	0	0		0	2				0
F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER	•				0	2		2 2		
F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRE	87	58	69	61 6	1 19	8		2		0
3	2						9			
344 F3-03 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR	83	\$	65	5 69	55 1	2	1 58		1 92	0
345 F3-04 DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC	98	25	19	. 16	1 34	16 9	94 84	5	26	0
CIRCUITS										
F3-05 00 YOU USE OSCILLOSCOPES TO MEASURE	67	28	-		52 1	9	9		87	0 (
F3-06 DO TOU USE OSCILLOSCOPES TO ME	7 .	,,,	60	200	0 6		20 20	1		
F3-01 DO YOU USE OSCILLOSCOPES TO OBSERVE LISADOUS	2	2:								
UBSERVE SIBRALS	00		1						1	
TO MAR	39	91	•3	75 2	1 12	10 5	26 56	9	55	0
MEASUREMENTS USING DELAY TIME MULTIPLIERS	-									
200	2:	00	60	200	66	71	27	n •		0
SIGNALS AFTER FIRST ADJUSTING THE GAIN AND	6									•
YOU USE OSCILLOSCOPES TO MEASURE DC VOLTA	88	51	67	3	1 3	5 9	7 16	6	16	0
I DO YOU WORK WITH SEMICONDUCTOR	:	6.0	57	•	2 19	9 92	88 62	91 2	. 92	0
308	:	6.7		9				=		
356 61-03 DO YOU REMOVE OF REPLACE DIODES	8 8	. «			2 60	25 8	88 6	100	9 6	o c
61-04 00	2									, c
61-05 DO YOU USE ENERGY LEVEL CIAGRA		m	10	6 12	1	1	1	-		0
DIODES										
	•	-	01	13	•	-	16 10	S	2	6
TO COMPUTE FORMARD OF REVERSE LIAS RESISTANCE										
6 360 61-07 DO YOU COMPUTE FORMARD OR REVERSE BIAS RESISTANCE FOR	12	11	1.	9 12	2	3 21	1 13	3 5	36	0

381 371 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	TACK COL	TACK GOOLD CLERADY											
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393 61-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN	7		10	19	6	2	5	5		30	
394 61-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN	5	7	•			w		2	w	23	
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OR REFER TO	33		=	0	21		*0	23		78	The same
INFORMATION SOCIETY DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD CURPENT DIODE BATTAGE	16	5	:	:	12	w	12			65	
YOU USE OR R	12		12	19			12	7		59	1
402 61-49 DO YOU USE OR REFER TO MAXIMUM SURGE CURRENT DIODE PATINGS	=	5	16	19	15		13			62	
103 61-50 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE	20	10	16	31	•		13	5		2	
62-01 DO YOU WORK WIT	90	65	29	31	27	=	53	74	26	95	
G2-03 DO YOU INSPECT TRANSISTORS	8 8	2 2	27	13	33		91	74			
SOT 62-04 DO YOU CHECK TRANSISTORS USING AN INSTRUMENT	8.0	2 3	27	3 3	30		2 3	62	13	9 4	
62-05 CO YOU USE OR REFER TO EMITTER - BASE (EB)	78	56	27	25	27		82	36	-	96	100
1	78	56	24	25	20	7	85	36	15	97	

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING	§			9	9	9	9				
DY-ISK	SPC 226	SPC 251	SPC 700	SPC	SPC 702	SPC 793	SPC	SPC	SPC 706	SPC 707	~ 0
G 410 G2-07 DO YOU USE OR REFER TO EMITTER - COLLECTOR (EC)	78	56	2.	25	2.	1	82	3,	:	9	
R TO HOW BLASING	27	20	12	19	•		29	13	10	59	
912 62-09 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE	25	20	12	19	•	5	29	-		57	-
	52	37	20	19	21	•	50	36		66	-
TRANSISI 62-11 DO	12	16	12	19	•	v	22	0		59	
62-12 DO YOU USE OR REFER TO	88	. 6	31	31	30	=	96	66	21	97	1
91, 92, 93, ETC 417 G2-14 DO YOU USE OR REFER TO TRANSISTOR SUBSTITUTION	5	u 3	2 :	. :	15	7 :	69	39	, :	93	
INFORMATION 5 418 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE	32	23	:	19	12	~	6	13	•	6	1
SMALLER THAN THE EMITTER CURRENT IE (USUALLY IS SEING 2 TO											
419 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF EMITTER BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR		12			5	. N		3	10	7	A STATE OF
420 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT	13	15	12	19	9		25		6	5.	-
0 400	•	12	5	19	•	2	13	5		:	347.36
CURVES 422 62-19 DO YOU USE OR REFER TO BETA TRANSISTOR GAINS	•	10	5	19	•	-	12		5		E No
423 62-2C DO YOU USE OR REFER TO ALPHA TRANSISTOR		: :	5	. 19		_	10			3	-
424 G2-21 DO YOU USE OR REFER TO GAMMA TRANSISTOR GAINS	0 4	. 5	. 5	9 5	46	-	6 10	w @	2 5	23	40
62-23 DO YOU CALCULATE	001			5					. ~ .	23	-
428 63-01 00	5 0	13	29	38	2.		50	:	•	22	
PRESENT JOB 429 G3-O2 DO YOU INSPECT TRANSISTOR AMPLIFIERS	56	13	20	19	21		47	*	•	90	
63-03 DO YOU ALIGN OR ADJUST TRANSISTOR AMPLIFIERS	32		7	13	15		30	2		86	-
63-04 DO YOU	51	12	24	31	21	w 00	::	30 2		90	- 0
63-06 DO YOU	40	9 6	27	25	27	7.	::	:		80	- "
63-37 DO YOU	53	11	00	13	•		.3	28	2	91	
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U USF OR REFER			20	5		_	12	,		•	
CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE !									١.		1
COLLECTOR CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN											

TASK GROUP SUMMARY											
T											
DY-TSK	SPC 226	SPC 251	SPC 700	SPC 701	SPC 702	SPC 703	SPC 704	SPC 705	SPC 706	SPC 707	SPC 708
6 437 63-10 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE	26	•	12	19	•	2	13	13	-	63	•
6 438 63-II DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN	•	u	•	19	u	-		u	-		0
	28	5	12	19	•	-	16		_	62	0
BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL 44G G3-13 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS DEFENCED TO MEASURE THE SPECIAL CHANGE IN	10	v	10	19	6	-		5		5	
	,	2	•	•		-				21	
CIRCUIT ANALYSIS (THIS HETHOD REQUIRES YOU TO PLO											
6 442 63-15 DO VOU USE OR REFER TO THE OPERATING POINT Q	12	•	•	19	u	-	12	7	-	37	•
G 443 G3-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR A	w	2		19	u	-	7	w		20	
6 444 63-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON EMITTER CONFIGURATION	¥	•	22	38	15		28	28	2	\$	•
	22	7	16	25	12	2	25	=	u	57	
446 63-19 DO YOU MEASURE POWER GAIN USE EMITTER CONFIGURATION EMITTER CONFIGURATION		. _.	. 12	25		. 2	22	, 15	o N	2 57	
NAT IS, DO YOU DIVIDE THE C NTO THE CHANGE THE BASE COL VOLTAGE GAIN	ĸ.									:	
	4	-	•	19	u	-	•	u	٩	8	-
G 449 G3-72 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA THAT IS, DO YOU MULTIPLY THE CURRENT GAIN TIMES THE VOLTAGE GAIN TO DETERMINE THE POWER GAIN	u	~	•	5		-		•		8	•
	=	w	•	5	ч	N		~	-	36	0
6 451 63-24 DO YOU COMPUTE THE STATIC OPERATING POINT [Q] OF A	0	-		0	•	2		2		:	
C .	23	•	5	10	•	-	22	=	~	6	0
EMTITER (SWAMPING) RESISTOR STREET, ASSOCIATED WITH SELF-	20		10	25	3	-	21	1	-	60	•

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TROUBLESHOOT OR REPAIR CASCADE-CONNECTED 22 3 1 2 31 3 1 1 3 5 0 62	TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING	S	SPC	SPC	SPC	SPC						SPC	Se
*** 6.3-9 00 YOU WIS CONFERENCY OF REFER TO MINEL DIGITS.** *** 17 HI-DO DO YOU USE ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU USE ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU USE ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU USE ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU USE ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU USE ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU USE ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU USE ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO YOU WIS ON REFER TO MINEL DIGITS.** *** 18 HI-DO	DY-TSK .	226	251	700	701	702		704			706	707	708
APPLIFIERS APPLIF	476 63-49 DO YOU TROUBLESHOOT OR REPAIR	22		12	31	3		_	•	5	•	62	•
NOW HALLOS DO YOU USE ON REFERENCE TO THOMASSESSORS (FECT) NOW HALLOS DO YOU USE ON REFERENCE TO TRANSSESSORS (FECT) NOW HALLOS DO YOU USE ON REFERENCE TO TRANSSESSORS (FECT) NOW HALLOS DO YOU USE ON REFERENCE DIDDERS NOW HALLOS DO YOU USE ON REFERENCE DIDDERS SUPPLIES NOW HALLOS DO YOU USE ON REFERENCE DIDDERS SUPPLIES NOW HALLOS DO YOU USE ON REFERENCE DIDDERS SUPPLIES NOW HALLOS DO YOU USE ON REFERENCE DIDDERS SUPPLIES NOW HALLOS DO YOU USE ON REFERENCE DIDDERS SUPPLIES NOW HALLOS DO YOU USE ON REFERENCE DIDDERS SUPPLIES NOW HALLOS DO YOU USE ON REFERENCE DIDDERS SUPPLIES NOW HALLOS DO YOU USE ON REFERENCE DOWNERS SUPPLIE	AMPLIFIERS	;		:	:						•	•	•
167 11.01 10.01	478 H1-02 DO YOU USE OR REFER TO	35		10	19			26		9 0		70	5 0
NOTE The COLUMN CONTROL REFER TO UNICUTION TRANSISTORS	479 H1-03 DO YOU USE OR REFER TO FIELD EFFECT TRANSISTORS	3		5	19	•			• (• •	~ .	2 :	- (
REAL HIL-OS DO YOU USE OR REFER TO ZEMER DIDDES	480 HI-04 DO YOU USE OR REFER TO UNIJUNCTION TRANSISTORS	51	•	10	19	6		2		7	2	3	0
No.	481 H1-05 DO YOU USE OR REFER TO	85	52	39	38	39	=	7	•	3.	20	29	•
483 42-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES 486 42-03 DO YOU CLEAN POWER SUPPLIES 486 42-03 DO YOU CLEAN POWER SUPPLIES 486 42-04 DO YOU WAS CITE POWER SUPPLIES 487 42-05 DO YOU ROUBLESHOOT TO POWER SUPPLIES 487 42-05 DO YOU ROUBLESHOOT TO POWER SUPPLIES 488 42-06 DO YOU TROUBLESHOOT TO POWER SUPPLIES 498 42-06 DO YOU WAS UITH BRIDGE RECITFIESS 490 42-07 DO YOU WAS UITH BRIDGE RECITFIESS 491 42-08 DO YOU WAS UITH WALE-MAKE COMPLIES 492 42-10 DO YOU WAS UITH WALE-MAKE RECITFIESS 493 42-11 DO YOU WAS UITH WALE-MAKE RECITFIESS 494 42-12 DO YOU WAS UITH WALE-MAKE RECITFIESS 495 42-12 DO YOU WAS UITH WALE-MAKE RECITFIESS 496 42-13 DO YOU WAS UITH WALE-MAKE RECITFIESS 497 42-14 DO YOU WAS UITH WALE-MAKE RECITFIESS 498 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 498 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 498 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 499 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 490 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 490 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 491 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 492 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 493 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 494 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 495 42-15 DO YOU WAS UITH WALE-MAKE RECUTFIESS 496 42-16 DO YOU WAS UITH WALE-MAKE RECUTFIESS 501 42-26 DO YOU WAS UITH CIRCUITS WATCH EMPLIYOF 502 42-25 DO YOU WAS UITH CIRCUITS WATCH EMPLOY INDUCTIVE 503 42-25 DO YOU WAS UITH CIRCUITS WATCH EMPLOY INDUCTIVE 504 42-25 DO YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 511 42-86 DO YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 512 42-86 DO YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 513 50 70 70 70 YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 514 52-86 DO YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 515 42-86 DO YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 516 52-78 DO YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 517 52-86 DO YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 518 52-86 72-86 DO YOU WAS UITH CIRCUITS WATCH EMPLOY LO PLYPE 519 52-86 72-86 D	482 H1-06 DO YOU USE OR REFER TO INTEGRATED CIRCUITS	89	50	51	31	61		7		3	20	5	•
886 RP-03 OF YOU LIESUCE PUMER SUPPLIES 887 RP-03 OF YOU ALTIGN OR ADJUST POWER SUPPLIES 887 RP-03 OF YOU TROUBLESHOOT TO POWER SUPPLY CORPORERYS 888 RP-03 OF YOU TROUBLESHOOT TO POWER SUPPLY CORPORERYS 889 RP-03 OF YOU TROUBLESHOOT TO POWER SUPPLY CORPORERYS 889 RP-03 OF YOU WARM UNDER SUPPLY CORPORERYS 891 RP-03 OF YOU WARM UNDER SUPPLY CORPORERYS 892 RP-03 OF YOU WARM UNTH THREE FOURE SUPPLY CORPORERYS 893 RP-04 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 894 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 895 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 895 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 896 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 897 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 898 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH THREE POWER SUPPLY CORPORERYS 899 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIRCUITS WHICH EMPLOY CAPACITIVE 890 RP-05 OF YOU WARM UNTH CIR	483 H2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER		60	82	81	82				5	78	2	•
NATE NR-05 ON YOU TROUBLESHOOT TO POWER SUPPLY CRECUIT LEVEL 87 57 59 63 64 19 64 18 48 HR-05 ON YOU TROUBLESHOOT TO POWER SUPPLY CORPORATES 87 57 35 60 27 30 78 64 19 64 68 HR-05 ON TOO UNERSHOOT TO POWER SUPPLY CORPORATES 87 57 35 60 27 30 78 64 19 64 68 HR-05 ON TOO UNERHOUSE APELIACE COMPLETE POWER SUPPLY CORPORATES 87 57 35 50 27 30 72 51 45 64 69 14 69	00 20-2H #8#	2 2	: :	; :	. 69		:			•	77	97	
NOT THE CLIFF OF YOU WORK WITH CIRCUITS WHICH EPPLOY CORPORATES NOT THE CONTROLLESSOOT TO POWER SUPPLY CORP	485 MZ-03 DO YOU CLEAN POWER SUPPLIES	92	59	55	63	52	3		5		60	80	0
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### 12-01 DO TOU PERVOKE OF REFER TO APPLIES DOPER SUPPLY COMPONENTS ### 12-09 DO TOU PERVOKE OF REFLICE PORCE SUPPLY COMPONENTS ### 12-09 DO TOU PORT WITH PART—AND RECITIFIERS ### 12-09 DO TOU PORT WITH PART—AND RECITIFIE	THE MONTH TO THE TRANSPORT TO BOWED SHIPPING COMPONEN	.,	57	35	5 5	27	1	,	•			::	
40 H2-00 DO YOU MER WITH HALL-MAYE RECTIFIERS OFFER THAN 73 40 29 31 25 31 75 40 40 40 12-00 DO YOU WORK WITH HALL-MAYE RECTIFIERS OFFER THAN 73 40 29 31 27 15 53 44 12 80 12 40 12-10 DO YOU WORK WITH FULL-MAYE RECTIFIERS OFFER THAN 73 40 29 31 27 15 53 44 12 80 12 40 12-10 DO YOU WORK WITH BRIDGE RECTIFIERS 80 43 39 30 30 30 30 19 57 36 17 94 194 12-10 DO YOU WORK WITH BRIDGE RECTIFIERS 80 43 39 30 30 30 30 19 57 36 17 94 194 12-10 DO YOU WORK WITH BRIDGE RECTIFIERS 80 43 39 30 40 45 52 37 79 59 31 27 19 57 36 17 94 195 12-10 DO YOU WORK WITH BRIDGE RECTIFIERS 80 43 30 40 45 52 37 79 59 31 20 40 10 10 10 10 10 10 10 10 10 10 10 10 10	489 H2-07 DO YOU	70	5	71			2 2	, .	•	3 -	2 5	3 3	
92 H2-10 00 YOU UNDRY WITH HALF-WAVE RECTIFIERS 98 100 YOU UNDRY WITH FULL-WAVE RECTIFIERS 98 12-11 DO YOU WORK WITH BRIDGE RECTIFIERS 98 12-11 DO YOU WORK WITH BRIDGE RECTIFIERS 98 12-11 DO YOU WORK WITH BRIDGE RECTIFIERS 99 12-12 DO YOU WORK WITH THREE-PMASE RECTIFIERS 99 12-13 DO YOU WORK WITH THREE-PMASE RECTIFIERS 99 12-13 DO YOU WORK WITH THREE-PMASE RECTIFIERS 99 12-13 DO YOU WORK WITH THREE-PMASE RECTIFIERS 99 12-15 DO YOU WORK WITH THREE-PMASE RECTIFIERS 99 12-15 DO YOU WORK WITH THREE-PMASE RECTIFIERS 99 12-16 DO YOU WORK WITH THREE-PMASE RECTIFIERS 99 12-17 DO YOU WORK DR REFER TO REPLE REQUIRACY 99 12-18 DO YOU WOR OR REFER TO REPLE REQUIRACY 99 12-19 DO YOU WOR OR REFER TO PRAKE REVERSE TO WERE RECTIFIERS 90 12-20 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 12-20 DO YOU WORK	490 HZ-08 DO YOU	8	56	20	31	15	4	7		3	::	:	0
92 H2-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS 93 H2-11 DO YOU WORK WITH BRIDGE RECTIFIERS 94 H2-12 DO YOU WORK WITH BRIDGE RECTIFIERS 95 H2-13 DO YOU WORK WITH THREE PHASE RECTIFIERS 96 H2-14 DO YOU WORK WITH THREE PHASE RECTIFIERS 97 H2-15 DO YOU WEE OR REFER TO INPUT YOU TAGE 98 H2-16 DO YOU WEE OR REFER TO INPUT POLTAGE 98 H2-16 DO YOU WEE OR REFER TO PEAK REVIERS 98 H2-17 DO YOU WEE OR REFER TO PEAK REVIERS 99 H2-18 DO YOU WEE OR REFER TO RIPPLE APPLITUDE 99 H2-19 DO YOU WEE OR REFER TO RIPPLE APPLITUDE 90 H2-16 DO YOU WEE OR REFER TO RIPPLE APPLITUDE 90 H2-16 DO YOU WEE OR REFER TO PEAK REVIERSE (TWEENES) YOU TAGE 90 H2-16 DO YOU WEE OR REFER TO PEAK REVIERSE (TWEENES) YOU TAGE 90 H2-16 DO YOU WEE OR REFER TO SHAPE OF OUTPUT WALFFORMS 90 H2-17 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-18 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-19 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-19 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY DON'T 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY DON'T 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY DON'T 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY DON'T 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY DON'T 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY DON'T 90 H2-10 POU WORK WITH CIRCUITS WHICH EMPLOY DON'T 90 H2-10 POU WORK WIT	491 H2-39 DO YOU WORK WITH	65	37	24	31	21				•	12	2	0
93 H2-11 DO YOU WORK WITH BRIDGE RECTIFIERS 949 H2-12 DO YOU WORK WITH THREE-PHASE RECTIFIERS 949 H2-13 DO YOU WE DOR REFER TO INDUIT FOR DUENCY 957 H2-15 DO YOU WE DOR REFER TO PEAN CUPPUT WOLFAGE 967 H2-16 DO YOU WE DOR REFER TO PEAN CUPPUT WOLFAGE 978 H2-17 DO YOU WE DOR REFER TO PEAN CUPPUT WOLFAGE 978 H2-18 DO YOU WE DOR REFER TO PEAN CUPPUT WOLFAGE 979 H2-16 DO YOU WE DOR REFER TO PEAN CUPPUT WOLFAGE 970 H2-16 DO YOU WE DOR REFER TO PEAN REFERS TO PEAN CUPPUT WOLFAGE 970 H2-16 DO YOU WE DOR REFER TO PEAN REFERS TO WOLFAGE 971 H2-17 DO YOU WE DOR REFER TO SAMPL GIVENUS 971 H2-19 DO YOU WE DOR REFER TO SAMPL GIVENUS 972 H2-20 DO YOU WE DOR REFER TO SAMPL GIVENUS 973 H2-21 DO YOU WE DOR REFER TO SAMPL GIVENUS 974 H2-22 DO YOU WE DOR REFER TO SAMPL GIVENUS 975 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 976 H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 977 H2-15 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 978 H2-17 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 979 H2-17 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 971 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 970 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 971 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 971 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 971 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY TO THE TOTAL TO TH	492 H2-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER	73	6	29	31	27	11	5	3	•	12		0
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95 H2-13 DO YOU USE OR REFER TO IMPUT VOLTAGE 96 H2-14 DO YOU USE OR REFER TO IMPUT FREQUENCY 97 H2-15 DO YOU USE OR REFER TO EARN OUTPUT VOLTAGE 98 H2-16 DO YOU USE OR REFER TO PARK ROTTOUT VOLTAGE 99 H2-17 DO YOU USE OR REFER TO AMERICAE OUTPUT VOLTAGE 100 H2-16 DO YOU USE OR REFER TO AMERICAE OUTPUT VOLTAGE 101 H2-19 DO YOU USE OR REFER TO PARK REFER TO SAMPE OF OUTPUT WOLTAGE 101 H2-19 DO YOU USE OR REFER TO SAMPE OF OUTPUT WOLTAGE 102 H2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 103 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 104 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 105 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 107 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 108 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 109 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE 11 WERS 11 WDUT L-TYPE FILTERS 12 WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE 13 WDUT L-TYPE FILTERS 14 WDUT WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 15 WD YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 15 WD YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 16 WD YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 17 WDUT WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 18 WD YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 19 WD YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 19 WD YOU WAR WITH CIRCUITS WHICH EMPLOY DON'T 19 WD YOU WAR WITH CIRCUITS WHICH EMPLOY DON'T 19 WD YOU WAR WITH CIRCUITS WHICH EMPLOY DON'T 19 WD YOU WAR WITH CIRCUITS WHICH EMPLOY DON'T 19 WD YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 19 WD YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 19 WD YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 20 WD YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T 21 WD YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 21 WD YOU WORK	494 HZ-12 DO YOU	33	10	24	25	24	2	•	•	= ;	•	2	0
496 H2-14 DO YOU USE OR REFER TO INPUT FREQUENCY 497 H2-15 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE 498 H2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE 499 H2-17 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE 500 H2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE 501 H2-19 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE 501 H2-19 DO YOU USE OR REFER TO RIPPLE FREQUENCY 501 H2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE 502 H2-20 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE 503 H2-21 DO YOU USE OR REFER TO SHAPE OF OUTPUT VALVEFORMS 504 H2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 505 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 506 H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 507 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE 508 H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 509 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 509 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE 51 INPUT L-TYPE FILTERS 509 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE 510 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 510 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 511 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 511 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 511 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 511 H2-29 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE 511 H2-29 DO YOU WAVE THE OPTION OF REPLACING ONE TYPE OF 511 H2-29 DO YOU WAVE THE OPTION OF REPLACING ONE TYPE OF 511 H2-29 DO YOU WAVE TYPE OF FILTER 511 H2-29 DO YOU WAVE TYPE OF FILTER 511 H2-29 DO YOU WAVE TYPE OF FILTER 512 H2-29 DO YOU WAVE TYPE OF FILTER 513 H2-29 DO YOU WAVE TYPE OF FILTER 514 H2-29 DO YOU WAVE TYPE OF FILTER 515 H2-29 DO YOU WAVE TYPE OF FILTER 516 H2-29 DO YOU WAVE TYPE OF FILTER 517 H2-29 DO YOU WAVE TYPE OF FILTER	495 H2-13 DO YOU	78	53	*	:	52	4	7	•	5	=	8	•
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501 H2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE 29 15 20 25 18 6 25 18 6 58 502 H2-20 DO YOU USE OR REFER TO SHAPE OF DUTPUT WAVEFORMS 64 29 29 38 24 5 50 34 6 89 503 H2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE 71 33 41 44 39 24 5 50 34 6 89 50 H2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 66 32 33 13 39 13 54 33 19 81 50 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE 48 21 31 25 33 9 43 26 14 74 51 10 10 10 10 10 10 10 10 10 10 10 10 10	SOO H2-15 DO YOU USE OR REFER TO	•	::	20	2 2	5 0		, ,	• ~	2.0		2:	- 6
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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

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PCT MBRS RESPONDING .YES. BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

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PERCENT MEMBERS PERFORMING											
DY-TSK	SPC 226	SPC 251	SPC	39C	SPC 1	SPC :	SPC	3 SPC	SPC S	SPC	SPC 700
548 II-10 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN RC	35	5		19				BE.			0
WORK WITH MULTIVIERATORS WHICH CONTAIN	26	,	•	•	•	-			•	5	•
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2 DO YOU WORK WITH HE	24	3	2	•	0	1		5	-	25	-
SSI 13-13 DO YOU WORK WITH ASTABLE MULTIVIERATORS	:	•	•	•	5		52			•	
52 II-IA DO YOU WORK WITH	50	5	-	19	12	-	5	=:	-	66	0
II-15 DO YOU WORK WITH BISTABLE MULTIVIBRATORS	53	· ·	=	19	12	-	59	=	-	8	0
MULTIVIERATORS	10	•	,	•	•	-	77		-	76	•
555 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN YOUR PRESENT JOB	3,	•	16	19	15	2	25	1	0	65	•
12-02 DO YOU WORK WITH	22		5		•	2	19	w		2	•
557 12-03 DO YOU WORK WITH SHOW! DIODE LIMITERS	02		21			2	77	-	9 9	2 5	0
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12-06 DO YOU WORK WITH	25	u	10	19	•	2	-	1	0	58	•
12-07 DO YOU	36	٠ <u>-</u>	•		-	-	5	2 ~	- 0	35	90
12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS	16	21	•	3	w		13		۰.	:	•
WORK WITH	16	2	•	•	12	-	12	•	•	25	•
565 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH		25	20	38	12	12	22	4	0	3	•
CONTAINS ELECTRON TUBES TO SEE IF THEY ARE GOOD	•	25	5	25	12		2)	•	•	8	9
13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUBES		::		13		=	5		•	2	•
569 13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBES		= 5	• 7	= 7	• ;	.	13 5	~ .	•	::	
13-06 DO YOU USE	3	19	16	15	+	4	22	4	-	=	•
571 13-07 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE RATING	- ~	" =		35	4	~ ~	• 5	6 N	• •	= \$	40
13-09 DO YOU USE OR REFER TO PEAK CURRENT RATING		. ~	• •	::	3 w	~	• •		•	2 %	-
13-11 DO YOU USE OR REFER TO		5	•	13	3	u 1	•	0	0	×	0
13-12 DO YOU USE OR REFER TO SATURATION	-	=	6	10	•	2	15	2		6	•
577 13-13 DO YOU USE OR REFER TO DC PLATE RESISTANCE	, .	~ ~	• 5	3 5		~ ~	• •		9 9	3 35	99
PESISTANCE FOR ELECTRON TUBES											
13-15 DO YOU USE OR REFER TO PLATE	2	:	12	12			21		•	=	•
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F CHANGE IN PLATE VOLTAGE TO A CHANGE IN GRI											

PERCENT MEMBERS PERFORMING DY-ISK 586 I3-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE AMPLIFICATION FACTORS	SPC 226	SPC 251	SPC SPC	3PC 701	SPC 702	SPC 703	SPC SPC	- 50		SPC 705		SPC 705
86 I3-22 DO YOU CALCULATE ACTUAL VALUES OF AMPLIFICATION FACTORS 87 I3-23 DO YOU USE OR REFER TO MULTIGRID (- 0		œ œ	19		2 2					0 0	0 0
DO YOU USE OR		1 2		5 5		.			- -		0 0	
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SYZ 13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE		~	•	19	3	2		-	-	-	0	
SAPACITANCE OR REFER TO CHARACTERISTIC CURVES IN YOUR	-	w	•	5	w	2			•	•		
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100	-	w	•		w	2		1	7	7 0	7 0 0	
SY6 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR CUTOFF	-	•	•	5		2		-	1	7 .	7 0 0	
REQUIRED FOR SATURATION	-	•	•	19		2		1	7	7 0	7 0 0	7 0 0 36
598 13-34 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN	12	78	•=	52				40	40	•	7 9 00 00	
600 13-36 DO YOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON TIME AMPLIFIED GATN	2	5	•	ä	•			5	5	2 01		2
AMPLIFIER GATH	-	•	12	25	•				•	•	•	
602 13-36 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE	2	7	•	5			1		•	•	• • •	
603 13-39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	-	~	•	;	4	2			•	•	•	
604 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH	0	-	2	•		-		-	-	-	1 0 0	
13-41 DO YOU USE OR REFER TO TUBE	3	35	16	25	12	5		=	•	2	2 0	10 2 0 88
OR REFER TO THE I	- 4	20	6 6	13	3 22	N .		3 19	3 19	3 0	3 0 0	3 0 0 23
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JI-DI DO YOU WORK WITH ELECTRON TO	~	•	12	25	•	5		-			•	•
610 JI-02 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER	•	2		13	0	w			1	0	0	

APPLIES. 10.13 J-05 DO YOU TROUBLESHOOT OR REPAIR CLEANECIED 10.14 J-05 DO YOU TROUBLESHOOT OR REPAIR CLEANECIED 10.15 J-07 DO YOU DON'N TROUBLESHOOT OR REPAIR CLEANECIED 10.15 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OF COLD 11.17 J-07 DO YOU WORK WITH 6AS TUBES HOT FURTHER CATHODE OF CA	DY-TSK	SPC 226	251	3PC	107 24S	5PC	2 703 7 703		SPC 704		SPC 705	SPC SPC 705 706	
APPLIFIERS 11 JI-07 DO YOU TROUBLESHOOT OR REPAIR CANADE-CONNECTED 12 JI-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE 13 JI-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE 14 JI-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OR COLD 15 JI-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OR COLD 16 JI-07 DO YOU WORK WITH 6AS TUBES HOT CATHODE OR COLD 17 JI-08 DO YOU WORK WITH 6AS TUBES HOT CATHODE OR COLD 18 JI-08 DO YOU WORK WITH CATHODE FANT TUBES 18 JI-09 DO YOU WORK WITH CATHODE FANT TUBES 19 JI-08 DO YOU WORK WITH CATHODE FANT TUBES 19 JI-08 DO YOU WORK WITH CATHODE FANT TUBES 10 JI-08 DO YOU WORK OR REFER TO THE CHARACTERISTICS OF BEAM 10 DO JI-08 DO YOU WOU WORK OR REFER TO THE PRINCIPLES OF OPERATION OF THE CHARACTERISTICS OF PERATION OF THE CHARACTERISTICS OF OPERATION OF THE CHARACTERISTICS OF OPERATIONS 10 JI-08 DO YOU WORK OF THE CHARACTERISTICS OF OPERATIONS 11 JI-08 DO YOU WORK OF THE	611 J1-03 DO YOU TROUBLESHOOT OR REPAIR 612 J1-04 DO YOU TROUBLESHOOT OR REPAIR			. ~ ~			.00	NN		100			
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ALF-DA DO YOU WORK WITH GAS TURES CHOT CATHODE OF COLD ALT-DAD ON YOU WORK WITH CATHODE-RAY TURES ALT J2-DA DO YOU WOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM ALT J2-DA DO YOU WE OR REFER TO THE CHARACTERISTICS OF BEAM ALT J2-DA DO YOU WE OR REFER TO THE CHARACTERISTICS OF ALT J2-DA DO YOU WE OR REFER TO THE PRINCIPLES OF OPERATION OF ALT J2-DA DO YOU WE OR REFER TO THE PRINCIPLES OF OPERATION OF ALT J2-DA DO YOU WE OR REFER TO THE PRINCIPLES OF OPERATION OF ALT J2-DA DO YOU WE OR REFER TO THE PRINCIPLES OF OPERATION OF ALT J2-DA DO YOU WE OR REFER TO THE PRINCIPLES OF OPERATION OF ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHOR SCREENS ALT J2-DA DO YOU WE OR REFER TO PHOSPHORESCENCE BAS J2-DA DO YOU WE OR REFER TO PHOSPHORESCENCE BAS J2-DA DO YOU WE OR REFER TO THE MEETING YOUR TIRES BAS J2-DA DO YOU WE OR REFER TO THE MEETING YOUR TIRES BAS J2-DA DO YOU WE OR REFER TO THE MEETING YOUR DID TO BE STATED SCREENS BAS J2-DA DO YOU WE OR REFER TO THE MEETING YOUR DID TO DO	01.0	•						•					
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IN YOUR WORK WITH TRANSMIT OR RECEIVE SYSTEMS 636 J3-05 DO YOU BERFORM TASKS ON REACTANCE MODULATORS 637 J3-06 DO YOU BERFORM TASKS ON MODULATED OSCILLATORS 638 AI-DI DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR 649 AI-DI DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS 640 AI-DI DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 650 AI-DI DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 650 AI-DI DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 650 AI-DI DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 650 AI-DI DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS	635 J3-04 DO YOU USE OR REFER TO THE HETERODYNING OF	6					-	- ^		w -		3	6 6 6
638 A1-01 DO YOU PERFORM TASKS ON MEMBERSHAFE POLICETORS 637 J3-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS 22 1 4 638 A1-01 DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR 4 0 0 639 A1-02 DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS 640 A1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 640 A1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 640 A1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 640 A1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 640 A1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 640 A1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 640 A1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 640 A1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS	IN TOUR WORK		,		,			•		•			
638 A1-D1 DO VOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR & D D PRESENT JOB 639 K1-D2 DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS & D D 640 K1-D3 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS & D D	637 J3-06 DO YOU	22			00		•	-	-	0	0		6
PRESENT JOD TOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS & 0 0	638 A1-01 DO YOU WORK ON AN IRANSMIT OR RECEIVE SYSTEMS IN	.:	۰.				0			- (00	0.0
639 RI-02 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS 4 D O	PRESENT JOB												
	640 KI-OZ DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS	• •	00		00		30	-				00	00

PCT MBRS RESPONDING "YES" BY DAFSC GROUPS

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AIR FORCE SYSTEMS COMMAND

TASK GROUP SUWMARY											
ENT HEMBERS PE											
DY-JSH	SPC 226	251 251	SPC 700	SPC	SPC 702	SPC 703	SPC 709	SPC 705	SPC 706	SPC 707	SPC 708
AZ KI-05 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE SYSTEMS											
COMPONENTS		, ,		, ,	, ,						
SYSTEMS SYSTEM				c	•			c	-		-
45 KI-DS DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE		0	0	0	0	-	-	0	0	3	
46 KI-09 DO YOU PERFORM TASKS ON RF OSCILLATORS	u		•		0	_			0	5	-
DO YOU PERFORM TASKS ON RF AM		0	0	0	0		0	0	0	6	-
MI-11 DO YOU PERFORM TASKS ON					, 0			. ~	,	. 7	
650 KI-13 DO YOU PERFORM TASKS ON LOCAL OSCILLATORS		0	0	0	0	-	w -	2	0	50	0
K1-14 DO YOU PERFORM TASKS ON	w		0			-	-			5	0
DO YOU PERFORM TASKS ON DETECTORS											
KI-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION IN	N +		0 0	0.0	0			00			00
SS KI-16 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN	2	0		0		-	0		0	2	0
TRANSMITTERS		,	,	,							
57 K1-20 DO YOU USE OR REFER TO SELECTIVITY OF RECEIVERS	w	0 0	٥.		•		0 6	06	0 0	~ ~	00
K1-21 DO YOU USE OR REFER TO	-		0			_					
659 KI-22 DO YOU USE OR REFER TO BANDPASS DISTORTION	0 2	0	0	00		_	0		0		
K1-24 DO YOU USE OR REFER TO	2						0		0	_	
662 K1-25 DO YOU USE OR REFER TO IMAGE FREQUENCIES IN RECEIVERS	22							00		. -	
564 K1-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM	w					_	_			2	
TRANSMITTED SCHEMATIC DIAGRAMS		, ,	,						,		
PECEIVER SCHEMATIC DIAGRAMS	•		٥	0		-	-	6	•		
66 K2-01 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS IN	11	0			12	-		~			
KZ-02 DO YOU INSPECT FM TRANSMITT	0 0	00		0	12	-	-	2	0		
DO YOU ALIGN FM TPANSMIT OR RECEIVE	,	0						2	0	2	
YOU TROUBLESHOOT TO FM TRANSMIT	•	0			12	-	-	~		2	•
71 K2-06 DO YOU TROUBLESHOOT TO FM TOANSMIT OR RECEIVE	•	0	•	0	•		1	2	0	2	
COMPONENTS COMPONENTS OF REPLACE FM TRANSMIT OR SECURE	10	0	•	0	12	-	0	0		,	9
SYSTEMS	. :										
COMPONENTS			2								2
74 KZ-CS DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS		0 0	• •					, ~			

DY-TSK DY-TSK DY-TSK DY-TSK ON DRIVE ORM TASKS ON FREQU ORM TASKS ON IF AM ORM TASKS ON IF AM ORM TASKS ON FREQU ORM TASKS ON FREQU E SIGNALS ON CURRE E SIGNALS OR CURRE	y	v 0 0000000 0 250	SPC SPC SPC	5 p 000000 p 700	27	2 250		9 1 1 1 7 6 5	9 1 1 1 7 69	9 1 1 1 7 6 5	SPC
SCHEMATIC DIAGRAMS OF FH RECEIVERS K3-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS (BASE 8) NUMBERS K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY	5 ¥	• •	3 2	2 2	27	u 2	The second second	2 8.			0 0
7 K3-03 DO YOU CONVERT OCTAL NUMBERS TO 18 K3-04 DO YOU CONVERT OCTAL NUMBERS TO 19 K3-05 DO YOU CONVERT BINARY NUMBERS TO 0 K3-06 DO YOU CONVERT BINARY NUMBERS TO	4642	w ~ w w	2 2 2 2	2 2 2 3	22 2 2			225	57 57 50 00 00 00 00 00 00 00 00 00 00 00 00		0 ~ 00
SUBRRACT	72	v •	20	23	15			=:	38 0 2		•
693 N3-D5 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT SUBTRACTION METHOD 694 N3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM 695 L1-D1 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS	32 23	15 .	22 29	:: 8	22 2	N . u		25 5	82 16 82 2		
696 LI-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS 697 LI-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS	3 5	= =	= =	77 72		~ ~	1000	2 8	59 3	.	
OR GATES OR GATES 698 L1-D9 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS 699 L1-D5 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC	\$ \$	5 =	10 12	: :		2 2	A STATE OF THE STATE OF	\$ 8	59 3		a
OR GATES YOU USE OR REFER TO TRUTH TABLES FOR AND OR GATES	70	5	=	25	•	2		72	12 1		7 0
O YOU USE OR REFER	5 5	: :	2 2	5 2		~ ~		2 2	7 7		, ,
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704 L1-10 DO VOU USE OR REFER TO LOGIC SYMBOLS FOR AND GATES 705 L1-11 DO VOU USE OR REFER TO LOGIC SYMBOLS FOR MAND OR MOR 706 L1-12 DO VOU USE OR REFER TO LOGIC SYMBOLS FOR MAND OR MOR	:::	555	222	===	5 5 5	~~~		= = =	= 7.5		===

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PCT MBRS RESPONDING YES. BY DAFSC GROUP'S											
TASK GROUP SUMMARY											
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DY-ISK	220 1	167	1	1						55	0
and the second s	8.3	15	20	31	15	2	10	•			
OR GATES	59	•	18	25	15	2	66	4	٥	33	-
708 L2-01 IN YOUR PRESENT JOB. DO YOU PERFORM ANY LASTS											1
RELATING TO BOOLEAN ENGRIPCING TOTAL	16	-		10	w	-	25	0	•	19	•
709 LZ-02 DO YOU DRAW LOGIC SYNBOLS FOR DIRECT COUPLED	•				•	•	12	2	0	13	•
TRANSISTOR	10	2	•	•				,	,	:	•
CORL) CIRCUITS	20	N	10		•	2	35	•	•	1	1
A FORIC DIVE	27	•	12	25	•	2	59	w		3 3	• •
TID L2-05 DO YOU MEASURE IMPUTS OR OUTPUTS OF LOGIC GATES	25	2		13	6	2	1	3		-	*
L2-06 DO YOU DEVELOP OR ANALIZE BUDGERS CARE	27	2	6	•	•	2	=	~	0	=	-
			;	;	•	-	32	-	9	26	0
ALGEBRA TOU USE OR REFER	11	-	-						•	=	9
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116 L2-09 DO YOU USE DE REFER LY TRANSPORTE CONCISTING OF	5.0	•	16	25	12	2	65	-	•	30	-
717 L2-10 DO YOU USE OR REFER TO LOSSE DESCRIPTION FOR SEPTIMENTS	25	5	6	10	-	2	22	2	0	-	P
TIE LZ-11 DO TOU CORPUTE SUE AND CARRY EXPRESSIONS OF THE STATE OF THE	;	,	5	25	12	N	28		•	15	•
THE LE-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER	,			: 1	•	,	5		•	39	•
10 31907	40	•	12	25						•	•
720 L2-13 DO TOO SURE TO THE TO THE TOTAL OF MULTIVIBRATORS	56	10	16	25	52	~~	25		0	3	-
721 12-14 DO YOU WORK WITH MONOSTABLE (ONE -SHOT)	53		•			+		•	,		•
INIT TO	58		18	25	13						-
:	5.00	•	16	25	12	u	60	3		*	
YOU USE OR REFER TO SINGLE-SHOT TOLLT	6	5	-	25	15	2	11			: 5	
	47	5	10	5		. ~	3 5		00	3 2	0
12-19 DO YOU USE	:	•	7	19	17	•			,	*	,
	:		12	19		2	5			1	
SE OF BERER TO COMPLEMENTING				13	•	2	53	5	0	37	. 0
SYMEOLS DO YOU MEASURE OUTPUT I	53	•	12	19		2	So	7		29	•
730 L2-23 DO YOU TRACE DATA FLUE INTOGOT			12	19	•	2	23	1	0	29	0
SCHEMATIC DIRECT DATA FLOW THROUGH COMPLEMENTING FLIP-	9.5						:			2	
FLOP SCI	37	5		6		-		1			Series.

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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#2-02 #2-03 #2-03 #2-04 #2-04 #2-04 #2-05 #2-05 #2-05	X 11 11 107 11 11 107 11 11 107 11 11 107 11	1
MZ-02 DO VOU PERI MZ-03 DO VOU PERI MZ-03 DO VOU PERI MZ-03 DO VOU PERI MZ-04 DO VOU TRO MZ-04 DO VOU TRO COMPONENT WHILE MZ-05 DO VOU USE MZ-08 DO VOU USE MZ-09 DO VOU USE MZ-09 DO VOU USE		1
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THE THE NACE NACE NACE NACE NACE NACE NACE NAC	ELEC PHYSI	
M2-02 DO YOU USE SIGNAL GENERATIONS IN YOUR PRESENT JOB M2-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL GENERATORS M2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS ALJUSITING. ALIGNING: OR CALIBRATING WHILE USING SIGNAL ENERATORS M2-04 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY M2-04 DO YOU TROUBLESHOOT TO THE SMALLEST REPLACEABLE COMPONENT WHILE USING SIGNAL GENERATORS M2-05 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS M2-04 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH AS SQUARE WAVE, TRIANGLE, PULSE, OR SPINE M2-09 DO YOU USE OF GENERATORS LESS THAN 1,000 MM M2-09 DO YOU USE OF GENERATORS GREATER THAN 1,000 MM	R REFER TO SISE TIME R REFER TO SISE TIME R REFER TO FALL OR FLYBACK TIME R REFER TO SUEEP TIME R REFER TO PHYSICAL LENGTH OF SANTOOTH PR REFER TO PHYSICAL LENGTH OF SANTOOTH PR REFER TO LINEAR SLOPE OF SANTOOTH PR REFER TO LINEAR SLOPE OF SANTOOTH	
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PERCENT MEMBERS PERFORMING											
DY-TSK	SPC 226	SPC 251	SPC 700	SPC 701	SPC 702	SPC 703	SPC 704	SPC 705	SPC 706	SPC	SPC
DO YOU DET	•	=	2	•	•	2	3	2	_	20	
TORCE OR TORQUE CREATED BY A MOTOR	:	21	•	23	•	2	,	2	2	3.	
MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR	•			•						3	
		1				-					
TOR MI-19 DO YOU WORK WITH THOUGHTON MOTORS	3 5	; ;		25	17		,	, 2	- ~	16	
M3-21 DO YOU WORK WITH	5 :		22	= ;	12	w 4	••		w .	59	
N3-22 DO YOU WORK WITH	39	19	24	19	27	10	7	5		7.	
M3-23 DO YOU INSPECT GENERATORS	53	12	22	36	15	-				12	
BOS M3-25 DO YOU OPERATE SEMERATORS		= .	29	3 2	2.	5.		w n	w u	::	
M3-26 00 YOU	•	•	12	13	12			2		30	
H3-27 DO	28		: 5							39	
ECTIONS				:							
807 M3-29 DO YOU TROUBLESMOOT DOWN TO COMPONENT PARTS OF GENERATORS	25	•		13	•		3	2	2	11	
NI-OL DO YOU WORK WITH METERS IN YOUR PRESENT JOB	2	::	8	100	. 5	70	: 75	. 7	.:	:	24
1	•	:	;					-			
MOVING COILS	18	22	16	25	12	=	25	=		:	
STRAIL SPRINGS	16	15	20	15	15	:	15	7	7	:	
O YOU READ METER SCALES	75	67	*	90		11	76	72	:	2.5	
NI-DE DO YOU EXTEND THE		==	37	*	36	. %	: :	: =	: =	53	
814 NI-07 DO YOU ZERO AMMETERS	29	22	35	25	5	30	2	15	- 3		
NO. 00 60-1N	3	36	65	:5	25	6	::	:8	22	::	
CEXPRESSED IN UNITS OF OHMS PER				: :	. :		. :	. :	. :		
AMPLIFIERS IN YOUR PRESENT JOB				3	•	•		•			
819 M2-02 DO YOU INSPECT MASMETIC AMPLIFIERS OR SATURABLE	3		~		4	-		~	0	15	
820 N2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE	3			•	•	-		~		13	
REACTORS DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE	3		~	•	•	-	-	2		13	
PEACTORS											
822 N2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE		0	2	•	0	1		2			
823 NZ-06 DO YOU PEMOVE OF REPLACE MAGNETIC AMPLIFIERS OR			~	•		-		2		16	
524 NZ-07 BO YOU REMOVE OF REPLACE MASMETIC AMPLIFIER OR	2	•	•	•	•	-		~		13	

TASK GROUP SUMMARY

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CI-DE DO YO	01-07 00 YO	01-06 00	01-05 DO			01-02 (PRESENT	01-01 00	N3-10 E	AND OUTPUT CONFIGURATION	DIFFERENTIATING OR INTEGRATING BASED ON THE TIME	CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT	N3-06 00	N3-06	-	N3-05		~	N3-01 DO	NZ-16 DO	SATURABLE REACTORS	NZ-15 DO	N2-14 DO YOU USE OR	N2-13 DO	PEACIORS	WAVEFORMS FOR MAGNETIC AMPLIFIERS	NZ-11 DO YOU INTERPRET SCHEMATIC DRAWINGS	WINDINGS	N2-10 DO YOU MEASURE OUTPUT WAVEFORMS ACROSS REACTOR	WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF		
	DO YOU	00 YOU	DO YOU					יים אמני		TPUT	ERENTI	-	00 YC	DO 400		DO 400		DO YOU					100 YO	70	DRS	DRMS	00 YC	16S 0	DO YOU	ORMS AC	DO YOU	
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YOU REMOVE OF REPLACE	OP P	TROUBLESHOOT	TROUBLESHOOT TO SSB TRANSMIT OR RECEIVE	ALIGN SSP TRANSMIT OF RECEIVE SYSTEMS	SSB TRANSMIT OR RECEIVE	INSPECT SSB TRANSMIT OR RECEIVE SYSTEM		WORK ON SINGLE SIDERAND SYSTEMS IN YOU	WORK STH SQUARE WAVE	OLTA	TIATING OR INTEGRATING BASED ON THE TIME	0 NG .	YOU USE OR REFER	REFER		REFER	OR REFER	REFER	H H	REFER		REFER	REFER	REFER	MELEK IN CHEMCTAE	311	S T3	OP LOAD RESISTORS OF SINGLE WINDING SATURABLE	OUT	ACTO	USE OR REFER TO HYSTERESIS CURVES OR LOOPS	DY-ISK
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IVE	TVE	3	18			3		20			CONSTANT		THE	S		UENCY			YOU WORK WITH WAVESHAPING CIRCUITS IN YOUR PRESENT	SCHEMATIC			378		TH ONI CHARLE		TO DEVELOP OUTPUT	ABLE	20	SOF	OCPS	
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02-14 DO YOU WOPK	02-13 DO YOU WORK ON	02-12 DO YOU WOPK ON	185 02-11 DO YOU WORK ON PULSE-POSITION HODULATION (PPM)	SYSTEMS	684 02-10 DO YOU WORK ON PULSE-DURATION MODULATION (PDM)	883 07-09 DO YOU WORK ON PULSE-AMPLITUDE PODULATION (PAM)	COMPONENTS	02-08 DO YOU REMOVE OF REPLACE PULSE MODULATION SYSTE	OR REPLACE PULSE	GO YOU TROUBLESHOOT TO PULSE MODULATION	02-05 DO YOU TROUBLESHOO	02-04 DO		PRESENT JOB	12	874 01-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB	TRANSMITTER SCHEMATIC DIAGRAMS	TRANSMITTERS	BANDU	871 01-27 DO YOU USE OR REFER TO RESPONSE CURVES FOR	01-25 DO TOU USE OR REFER TO	01-24 DO YOU USE OR REFER	SYSTEM STAGES	867 01-23 DO YOU PERFORM TASKS ON SSB DEMODULATORS	01-21 DO YOU PERFORM TASKS ON SSB	01-20 DO YOU PERFORM TASKS ON	01-19 DO YOU PERFORM TASKS ON SSB	SAC OI-18 DO YOU PERFORM TACKS ON SER POLICE AMPITETERS	01-16 DO YOU PERFORM TASKS ON SSB	01-15 DO YOU PERFORM TASKS ON SSB	01-14 DO YOU PERFORM TASKS ON SSB	01-13 DO	THE DO YOU PERFORM TACKS ON SER	SA 01-10 DO YOU PERFORM TASKS ON SSB	3 01-09 DO YOU PERFORM TASKS ON SSB	DY-TSK	PERCENT MEMBERS PERFORMING	,
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AIR FORCE SYSTEMS COMMAND

PCT MBRS RESPONDING "YES" BY DAFSC GROUPS

M 52 02-	925		0 912 02	0 911 02	0 910 02		0 909 02	907	906	0 905 02	0 903 02-	0 902 02	0 901 02	0 900 02	0 899 02	0 898 02-	0 897 02-	0 896 02.	0 895 02-	0 894 0Z	893	240		0 891 02-	0 890 02	0 889 02-		PERCENT
03-01 DO YOU BORK WITH ANTENNAS IN YOUR PRESENT JO	LATION RECEIVED SCHEMATIC DIAGRAMS	02-39 DO YOU TRACE SIGNALS OR CURPENT PATHS THROUGH PULSE	02-38 DO YOU TRACE SIGNALS OR CURPENT PATHS THROUGH PULSE	02-37 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR	02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE	RRENCE FREQUENCY (PRF)	02-34 DO YOU USE OR REFER TO AVERAGE POWER	DO YOU USE OR REFER TO	DO YOU USE OR REFER TO PULSE SHAPE	02-30 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRI)	02-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY	02-28 OF YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	market and a second	02-26 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DETECTORS	02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM IF AMPLIFIERS	02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RF AMPLIFIERS	02-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TRANSMITTER TUBES	PULSE TRANSFORMERS	THYRATRONS	TOU PERFORM I ASAN	DRMING NETWORKS	02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	TASKS ON	0	DY-ISK	PERCENT NEWBERS PERFORMING
		w	3	0			0 -	2	3	2 -	-	2	•	0	2	-	-	-	•	0			•	u		w	SPC 226	
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PERCENT MEMBERS PERFORMING			SPC	SPC	388	32		- 1		SS	25
DY-TSK			SPC	Sec Sec	SPC	SPC			SPC .	SPC	, ES
945 03-32 DO THE ANTENNA ARRAYS YOU SHE O3-33 DO THE ANTENNA ARRAYS YOU	0 0	0 0						0 0	-		ROBERT ST
0 946 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC 0 947 03-34 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC		0 0									
ELEMENTS SERVING AS REFLECTORS 948 03-35 DO THE ANTENNA ARRAYS YOU WORK	•	0	•		•	_			0	-	
949 03-36 DO YOU HORK ON		. 0	. :	, 0	21					, 0	
O 851 03-38 DO YOU HORK ON DON'T REMEMBER THE DIRECTIONALITY	0 0	00	œ 4	0 0	120			0	00	- 0	
852		0	2			! _					
PS3 P1-01 IN YOUR PRESENT JOB DO YOU WORK WITH TRANSMISSION LINES (TRANSMISSION LINES ARE DEFINED TO INCLUDE LEADS BETWEEN RECEIVERS AND ANTENNAS, TELEPHONE LEADS, AS WELL	•	•	•		1 2	7.			1		
2000	3	5	3		•			-	^	•	100
TRANSMISSION LINES OSS DI-DA DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH ERE		- 1	- (1		N '		
CURRENTS IN TRANSMISSION LINES 956 P1-D4 DO YOU REFER TO OR USE RADIATION LOSS	~	- 1	~ (w				~	~	
P 957 P1-05 DO YOU USE OR REFER TO DIELECTRIC LOSS IN	0	•	2	•	3	•			5	5	
P 958 P1-06 DO YOU USE OR REFER TO LEAKAGE LOSSES IN TRANSMISSION	2	•	2		u	23			4	•	
P 959 P1-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES	5	5	0	0	0	57	w	.	38	52	100
960 PI-08 DO YOU WORK WITH			00	00	00	27	21		21	37	
962 PI-10 DO YOU WORK WITH	•	•	5		15	13	2	-	=	5	
P 963 P1-11 DC YOU WOPK WITH RIGID COAXIAL CABLE TRANSMISSION	3	-	•		•			1	2	5	
P 964 P1-13 DO YOU TROUBLESHOOT TRANSMISSION LINES P 965 P1-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN	- 5	NU	0 ~	00	0	17	37		= 5	8	
TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMI (OPEN, SHORTED, CAPACITIVE, INDUCTIVE)								100	Table of	40	1
P 966 PI-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINES	1	0	0	0		5		-	7	6	
OR REFER	3		2	0		30		12	36	32	1
P 968 PI-16 DO YOU MEASURE STANDING WAYE RATIOS (SR) OF	-	-	2	•	w	_		•	w	2	
TRANSMISSION LINES	•	•								,	
TRANSMISSION LINES		•	c								301
970 PI-18 ON YOU PERFORM THE CALCUL ITOMS NECESSARY TO	0	0	0	0	0	-		1	5	3	4

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PERCENT MEMBERS PERFORMING											
DY-TSM	SPC 226	SPC 251	SPC	SPC 701	SPC 7P2	SPC S	SPC S	SPC	SPC S	SPC S	SPC
971 P1-19 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED	~	~	•	•	•	;	•	30	5	•	•
TO LOADS USING MATCHING TRANSFORMERS								ě	:		
772 P1-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING DELTA MATCHING	0		•	•	0	3	-	2	3	-	0
973 P1-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED	0		0	-	•	•	•	2	17	-	-
FOR PARTICULAR JOBS WITHOUT REFERRING TO TECHNICAL DATA P 974 P1-22 DO YOU USE OR REFER TO THE TERM CHARACTERISTIC	,	>	•	•	•	•					•
IMPEDANCE (20) OF TRANSMISSION LINES							-			•	
775 P1-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (20) OF	-		•	•	0	5	-			-	0
976 P1-24 DO YOU USE OR REFER TO THE TERM CUTOFF FREQUENCY OF		•	0	0	0	•	•	4	•	-	•
TRANSMISSION LINES P 977 P1-25 DO YOU USE OR REFER TO THE TERM VELOCITY FACTOR (K)		-	-	-	-			9	•		•
OF TRANSMISSION LINES					1			•	•	•	
1978 P1-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES			•	•	0	w	1	2	2	-	0
979 P1-27 DO YOU CONSTRUCT TRANSHISSION LINES OF PARTICULAR	0		2		3	2	-	0	3	2	•
980 P1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT AS THE			•	•	•	•	-	u	•	2	•
TRANSMISSION LINES REMAIN CONSTANT. THE ELECTRICAL LENGTH											
INCREASES						1					
1981 P1-29 DO YOU WORK WITH NONRESONANT (FLAT) TRANSMISSION	0	1	0	0	0	16	1	1	=	1	0
P1-3C DO YOU WORK WITH	, <u>-</u>		• •		• •			-	=		
DADS USING STUB MATCHING						•	•	•	•	•	•
P 984 P2-01 DO YOU WORK WITH WAVEGUIDES OR CAVITY RESONATORS IN			22	•	23	-	•	•	•	2	•
		0	18	•	27	-	•	0	0	2	0
P2-03 DO YOU CLEAN WAVEGUIDES OF CAVITY R			•	0	•	-	•	•	•	-	•
987 P2-04 DO YOU BEND WAVEGUIDES OR CAVITY RESONATORS			, n				•		• •		- a
P2-06 DO YOU PRESS			~				•	0	•		0
P2-07 DO YOU PURGE WAVEGUIDES OR CAVITY RESONAT		0		0	-	+	-	-	-	1-	-
992 P2-09 DO YOU REMOVE OP INSTALL COMPLETE MANEGUIDES		0	2.	0 6	¥ :		0 6	-		- ^	
PZ-10 DO YOU REMOVE OF INSTALL WAVEGUIDS		•	24	•	36	-	•	•	•	-	•
994 PZ-12 DO YOU REMOVE OF INSTALL F BENGS			•	- 0			• •		•		3 6
P2-13 DO YOU REPOYE OF INSTALL H SEND	0	0	0	0	3	-	د	0	0	-	•
998 P2-15 DO YOU PEROVE OF INSTALL CHORE JOINTS			~ •	0 0			-	o c	•		•
P2-16 DO YOU REMOVE OF INSTALL			2	0	4	-	0	0	-	-	
100 P2-17 DO YOU REMOVE OF INSTALL DIRECTIONAL COUPLERS				0	-	-	9 9	0	•	-	90
P2-19 DO YOU USE OR REFER TO "A			0	0	•		0 (6	0		•

CT HORS RESPONDING YES' BY DAFSC GROUPS		6P	GPS700 PAGE	PAGE	125		AII	FOR	E SY	SHEES	AIR FORCE SYSTEMS COMMAND
PERCENT MEMBERS PERFORMING		a e n			* h= *		d.			e service :	o report
DY-158.	SPC 226	SPC 251	SPC 700	200	SPC 702	SPC 703	SPC	SPC 705	SPC	SPC	E SS
PIGGS P2-20 DO YOU USE OR REFER TO "B" WALL OF WAYEGUIDES	••	00	••	00	00		00	00			00
PZ-22 DO YOU USE OR REFER TO	0	•	•	•	0	-			•	-	0
PIGGS PZ-23 DO TOU USE OR REFER TO POWER-DETERMINING WALL OF	•	-	0	-	-	+	-	P	-	+	-
PIGOT P2-24 DO USE OR REFER TO ELECTRIC FIELD BOUNDARY	•	•	•			2			•	-	
PIGGS P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY	•	•	•	•	0	1	•	0	•	-	•
PIDOS P2-26 TO YOU USE OR REFER TO DUPLEXER FIELD BOUNDARY	0	b	P	•		-	0	-		1	•
PIGIO PZ-27 DO YOU USE OR REFER TO THE BENERAL RULE THAT HOST WAVEGUIDES ARE WADE WITH A "B" WALL SIZE OF .7 WAVELENGTHS	•	•	•	•	•	-	0		•	-	•
OF THE OPERATING FREQUENCY PIGIT P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST "A" VALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE . WITH .35	•		•	•	•	-	0	-	•	-	•
PIOLZ PZ-29 ARE YOU CONCEPNED WITH THE MATERIAL (SUCH AS BRASS)	•	•	•	•	•	-	•		0	-	•
PIGIS P2-30 DO COMPUTE THE LENGTH OF A MAYEGUIDE FOR SPECIFIC	0	•	•	•	•	-			•	1	0
DIPECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR	•	•		-	-	+		-	•	+	9
IN WAVEGUIDES	•	•	•	•	•	•	•	•	•	-	0
"H" LINES IN PAVEGUIDES 1016 P2-33 DO YOU MEASURE THE TIME PHASE OF "E" OR "H" LINES IN WAVEGUIDES	0	0	0	0	0	-	0	•	•	-	0
1017 P2-34 DO YOU USE OR REFER TO THE SPACE QUADRATURE OF "E" OR	0	•	•	0		-	•		•	-	•
PIGIO PZ-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY	•	•		0	•	-	•	•	•	2	•
PIG19 P2-36 ARE LOW POWER PROBES USED ON MAVEGUIDES OR CAVITY OF SCHATORY YOU WORK WITH	•	0	•	•	•	-	•	•	•	~	•
PIOZO PZ-37 ARE LOOPS USED ON MAVEGUIDES OR CAVITY RESONATORS	0	0	0	0	0	-			0	-	
PIDZI PZ-36 ARE APERTURES (WINDOWS OR IRISES) USED ON WAVEGUIDES	0	0	2	•		-	•			-	•
REMEMBER THE KIND OF	•	0		0	12	-	•	•	•	-	0
PIG23 P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE FOUNTED IN	•	0	0	0	0	-	0	0	0	-	0
TECHNICAL DATA	•	•	•	•			•	,	•	•	
TECHNICAL PATA	•		•								

PERCENT MEMBERS PERFORMING				1		-			
SPC		C SPC	SPC	Sec		245	5	SPC	SPC
DO-NO TO VOIL DETERMINE THE BOSTITIONING OF SIZE OF ARESTHEES O									
TECHNICAL DATA TECHNICAL DATA								_	-
JOINTS USED IN WAVEGUIDES OR CAVITY D	0	2	0	3 1				-	
USED IN WAVEGUIDES OR CAVITY 0	0	2		3				-	
& P2-45 ARE JON'T REMEMBER THE MIND OF JOINTS USED IN	0	•	0 24					_	
WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH								•	
P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING 0				1	0	•		2	
P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING O					0	0	0	2	0
USING DON'T REMEMBER		~ 0	0 0	3 0	0 0	0 0			
THE METHOD OF TUNING					,		,	,	,
RESONATORS	•	•							
UR PRESENT JOB DO YOU WORK WITH KLYSTROMS, OF	0	•	1	9	0	0	0	12	0
U USE OR REFER TO INTERELECTRODE CAPACITANCE O	••								
P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE					i	0		5	0
DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL O								-	
U USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY O	•	٥	-	0			0		•
•				_				.	•
P3-D8 DO YOU WORK WITH TWO-CAVITY KLYSTRONS									
0								~	
P3-11 DO YOU WORK WITH TRAVELING-WAVE TUBES (TWT)		•	0	•		0		2	0
SCHOOLSCHE TAXABLING					•	•	-		•
P3-13 DO YOU WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS O				_		0		2	
0					90	0	30	- 5	30
P3-16 DO YOU CLEAN KLYSTRONS OR THE					0		0		
P3-17 DO YOU TUNE KLYSTRONS OR THE ELECTRICALLY				_					
1052 PI-16 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTROMS OR D		6 2		• •					
PI-21 DO YOU PROUBLESHOOT RETSIRORS OR THE							•		
3-22 DO YOU REPORE OF REPLACE METSTROM OF THE COMPONENTS D					0	0		~	
P3-23 GO YOU INSPECT PARAMETRIC AMPLIFIERS O		00		-				~	
TOO CEERS TRANSCIPLE AND TETEDS									

PERCENT MEMBERS PERFORMING							400				
DY-TSH.	SPC 226	SPC 251	SPC	SPC	SPC	SPC	SPC	SPC	SPC 706	SPC	C SPC
P1059 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS P1060 P3-27 DO YOU PERFORM OFFERATIONAL CHECKS OF PARAMETRIC						-		90	90		
TROUBLESHOOT PARAMETRIC AMPLIF				0		-	0	0	0		2
16168 100 YOU	0	0		0	0	1					~
PID63 P3-30 DO YOU REMOVE OR REPLACE PARAMETRIC AMPLIFIER	•	0	•	•	•	-	0				2
PIGGA P3-31 DO YOU INSPECT MAGNETRONS			•			_	•			_	2
P3-32 DO YOU			. ~								
PID67 P3-34 DO YOU TUNE MAGNETRONS			00	00	00	_		00			•
P3-35 DO YOU				0	0	_				=	~
1069 P3-36 DO YOU TROUBLESHOOT MAGNETRONS			• •		•					 5 =	~ -
PIOTS DI-10 DO YOU REMOVE OR REPLACE MAGNETRON COMPONENTS											i
THO-CAVITY KLYSTRONS COLLECTOR PLATES											
PIGTS P3-4G DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF							0				-
PIOTA P3-41 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF			•	•	•	-					
PIGTS PI-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	0	0			0	-	0	•	•		-
			•						.		•
TWO-CAVITY KLYSTRONS DRIFT SPACES											
PIO77 PI-44 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS BUNCHER GRIDS						-					2
PIOTO P3-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	•	•		0	0	-					2
P1079 P3-46 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF		•	•	•	•	-		•	•		
PIDED PI-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF		•				_				ACT.	i in
PIDDI P3-48 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	•	0	0	•		_				93	
PIDS2 P3-49 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	•					-	0		0		u
PIDS3 P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF		6									•
REFLEX KLYSTRON GRID CAVITY GAPS	•		,		,		,	,			
PEFLEX ALYSTRON DESONANT CAVITIES			, ,								
COUPLIN		•	٠)0	•		•				
PIGG6 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTRON FILAMENTS			0	•	0	-	0				-
PIDST P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX ALYSTRON CATHODES	-	0	0		0					ſ	

BRS RESPONDING *YES* BY DAFSC GROUPS GROUP SUMMARY ENT MEMBERS PERFORMING DY-TSK	SPC 226	SPC 251	SPC SPC	GPS700 PAGE SPC SPC 700 701	28	SPC		AIR FORCE SYSTEMS COMMAND SPC SPC SPC SPC SPC 709 705 706 707 708	SPC 705	25 E		AIR FORCE SYSTEMS COMMAND C SPC SPC SPC SPC 1 705 706 707 708
					0	1				•		
PIOSO P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	-				•	_		•	•	•		
	0	0	2	6	u				-	-	A STATE OF	
- 1								•	•		3600	
	, ,	, ,	, (, ,	, ,		
TRAVELING-WAVE TUBES ANODES	•	-	~	-				G	•	9		
	0		2	0	3			-	0		1	
PIO94 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	0		2	0	3	1		0	•	0	1	
PIG9S P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	•							•	•	•		
PIOSE P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	•	0	2		3			•	~			3
PIO97 P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE			0	•				•	•			2
CIRCULATORS P3-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER	0							•	•			2
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PILOD P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DIODES								-	0	•	6	2
P1101 P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE ISOLATORS						_		•	•			~
PILOZ P3-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIEM REVERSE-	0					-		0	-		1	2
P3-70 DO YOU PERFORM TASKS ON								, .			A	
TASKS ON	•				•			-	•	0 (
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P3-75 DO YOU PERFORM TASKS ON CATHODES	0	0	0	0	0			7	0	0	1	
09 P3-76 DO YOU PERFORM TASKS ON	: 0							0	0	. 0	M	
CILIU 41-01 DO YOU USE ON REFER TO SWIFT PEGISTERS	87	;;	22	::	2:	~ ~	::	- `	P (2 1
21-03 DO YOU USE CR REFER TO	77	:	-	19	17	2		Ī	0		TO B	N
CITTS OF-DA NO YOU USE ON REFER TO LOGIC SYNDOLS OF STORAGE	6	12	12			2	79			-	1	
PEGISTERS			188	100	100	2000	1 8	100			1	
G1114 C1-75 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	;	20				2	1		•			~
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PERCENT MEMBERS PERFORMING

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OLIT 92-01 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR	7.	7	=	69	27	w	2		•	•	2
STORAGE DEVI											1
02-03 DO YOU USE OR REFER TO	31	. N	: =	25		, _	::		, ~	. 0	56
DO YOU USE	•	- •	2 7	56	• •	~ ~	2:		- 6	-	7
02-05 DO YOU USE OR REFER TO MAGNETIC	•	2	10	31	12	w (*		-	•	5
02-06 DO YOU USE OR REFER TO	59	2	20	38	12	_	51		-	•	15
MEMORY SYSTEMS	2	•	3				2		•	•	3
SYSTEMS OF OR RELEASE CHEMICAL CHEMICAL	,	•	•	2						•	
92-08 DO YOU USE OR REFER	17	-	5	:	•	_	35		-	•	7
Q2-09 DO YOU USE OR REFER	28	٠ ~				. ~			, 0	•	12
ANALOS (DZA) CONVERTERS, ANALOS-TO-DISITAL (AZD)	•										1
Q1127 Q3-Q2 DO YOU COMPUTE OUTPUT YOUTGES FOR ELECTRONE CHANICAL	13	•		=	•				•	-	=
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COUNT IN ELECTROMECHANICAL DISTIAL-TO-ANALOS (D/A)											:
CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE RESISTORS											
Q1129 Q3-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY COUNTS IN ELECTRONIC DIGITAL-TO-ANALOG (D/A) CONVERTERS	12	•	•	13		_	12		-	•	=
01130 03-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME	12	•	5	12	•	_			-	•	21
01131 03-06 DO YOU PERFORM HOLD FUNCTION TASKS ON VARIABLE TIME	15	0	•	13	•		10		0	-	12
	16	•	12	=	12				•	•	21
TIME ANALOS-TO-DIGITAL (A/D) CONVERTER CIR Q3-D6 DO YOU PERFORM DIGITIZE FUNCTION TASK	•		5	13	•	-				•	21
TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	5	-								7	3
ON VARIABLE											1
G1135 G3-1C DO VOU USE OR REFER TO SAMPLE FUNCTION OF A/D	11	6	10	13	•	1			0	•	22
CONVERTERS G1136 G3-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D	15	0	•	13	w	_			·	0	22
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TASK SROUP SUMMARY											
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DY-TSK	SPC 226	SPC 251	SPC 700	SPC	SPC 702	SPC 203	SPC 704	SPC ZOS	SPC 706	SPC	SPC
RII+O RI-OI DO YOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR	-		•		•	_	•	•	•	5	•
R1141 R2-01 IN YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER	•	=	12	5	•	•	2	13		Ħ	•
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RII45 R3-02 DO YOU FABRICATE CONXIAL CABLES	•	•	=	13	21		13	~		31	•
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S1148 S1-03 DO YOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING	u	2		•	•	-	12	•	•	17	•
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S1155 S3-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	_		2		u	_	•		•	72	•
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PERCENT MEMBERS PERFORMING

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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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